

3-5 End Behavior

Date _____ Period _____

Describe the end behavior of each function.

1) $f(x) = x^3 - 2x^2 + 3$

- A) Rises to the left. Rises to the right
- B) Falls to the left. Rises to the right
- C) Falls to the left. Falls to the right
- D) Rises to the left. Falls to the right

2) $f(x) = -x^5 + 4x^3 - 3x - 1$

- A) Rises to the left. Falls to the right
- B) Falls to the left. Falls to the right
- C) Rises to the left. Rises to the right
- D) Falls to the left. Rises to the right

3) $f(x) = x^4 - 2x^3 - 2x^2 + 5$

- A) Falls to the left. Rises to the right
- B) Rises to the left. Falls to the right
- C) Falls to the left. Falls to the right
- D) Rises to the left. Rises to the right

4) $f(x) = -x^5 + 4x^3 - 4x - 4$

- A) Rises to the left. Falls to the right
- B) Rises to the left. Rises to the right
- C) Falls to the left. Falls to the right
- D) Falls to the left. Rises to the right

5) $f(x) = -2x^2 - 4x + 3$

- A) Falls to the left. Rises to the right
- B) Rises to the left. Rises to the right
- C) Falls to the left. Falls to the right
- D) Rises to the left. Falls to the right

6) $f(x) = x^2 - 6x + 3$

- A) Falls to the left. Falls to the right
- B) Rises to the left. Falls to the right
- C) Falls to the left. Rises to the right
- D) Rises to the left. Rises to the right

7) $f(x) = x^3 - 2x^2$

8) $f(x) = -x^5 + 4x^3 - 4x + 2$

9) $f(x) = x^2 - 6x + 10$

10) $f(x) = x^3 - 4x^2 + 4$